Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

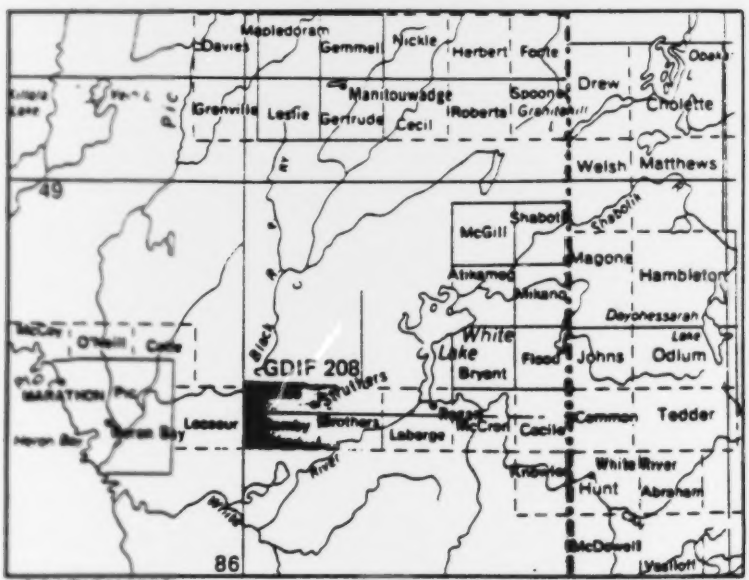
John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY
**GEOLOGICAL DATA INVENTORY FOLIO**
**GDIF 208**

# MOLSON LAKE AREA

DISTRICT OF THUNDER BAY

Compiled by the Staff of
the Resident Geologist's Office
Thunder Bay




LOCATION MAP

Scale 1 : 1,013,760 or 1 inch to 16 miles

85-6402/

NTS Number 42 C 12/NW

Mining Claim Map Number G-603 (M-33)

This project was funded equally by the governments of Canada and Ontario under the Northern Ontario Rural Development Agreement (NORDA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Molson Lake Area, District of Thunder Bay; Ontario Geological Survey, Geological Data Inventory Folio 208, compiled by the staff of the Resident Geologist's Office, Thunder Bay, 34p. and 2 maps.

Original Compilation by: T. Twomey

| Date | Page Revised | Revised by |
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## ACCOMPANYING MAPS

Property Location Map - 1

Exploration Data Map - 1

Map Scale 1: 31 680 or 1 inch to ½ mile

# CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

| CONVERSION FROM SI TO IMPERIAL | | | CONVERSION FROM IMPERIAL TO SI | | |
|---|---|---|---|---|---|
| *SI Unit* | *Multiplied by* | *Gives* | *Imperial Unit* | *Multiplied by* | *Gives* |
| | | | **LENGTH** | | |
| 1 mm | 0.039 37 | inches | 1 inch | **25.4** | mm |
| 1 cm | 0.393 70 | inches | 1 inch | **2.54** | cm |
| 1 m | 3.280 84 | feet | 1 foot | **0.304 8** | m |
| 1 m | 0.049 709 7 | chains | 1 chain | **20.116 8** | m |
| 1 km | 0.621 371 | miles (statute) | 1 mile (statute) | **1.609 344** | km |
| | | | **AREA** | | |
| 1 $cm^2$ | 0.155 0 | square inches | 1 square inch | **6.451 6** | $cm^2$ |
| 1 $m^2$ | 10.763 9 | square feet | 1 square foot | **0.092 903 04** | $m^2$ |
| 1 $km^2$ | 0.386 10 | square miles | 1 square mile | **2.589 988** | $km^2$ |
| 1 ha | 2.471 054 | acres | 1 acre | 0.404 685 6 | ha |
| | | | **VOLUME** | | |
| 1 $cm^3$ | 0.061 02 | cubic inches | 1 cubic inch | **16.387 064** | $cm^3$ |
| 1 $m^3$ | 35.314 7 | cubic feet | 1 cubic foot | 0.028 316 85 | $m^3$ |
| 1 $m^3$ | 1.308 0 | cubic yards | 1 cubic yard | 0.764 555 | $m^3$ |
| | | | **CAPACITY** | | |
| 1 L | 1.759 755 | pints | 1 pint | 0.568 261 | L |
| 1 L | 0.879 877 | quarts | 1 quart | 1.136 522 | L |
| 1 L | 0.219 969 | gallons | 1 gallon | **4.546 090** | L |
| | | | **MASS** | | |
| 1 g | 0.035 273 96 | ounces (avdp) | 1 ounce (avdp) | 28.349 523 | g |
| 1 g | 0.032 150 75 | ounces (troy) | 1 ounce (troy) | **31.103 476 8** | g |
| 1 kg | 2.204 62 | pounds (avdp) | 1 pound (avdp) | **0.453 592 37** | kg |
| 1 kg | 0.001 102 3 | tons (short) | 1 ton (short) | **907.184 74** | kg |
| 1 t | 1.102 311 | tons (short) | 1 ton (short) | **0.907 184 74** | t |
| 1 kg | 0.000 984 21 | tons (long) | 1 ton (long) | **1016.046 908 8** | kg |
| 1 t | 0.984 206 5 | tons (long) | 1 ton (long) | 1.016 046 908 8 | t |
| | | | **CONCENTRATION** | | |
| 1 g/t | 0.029 166 6 | ounce (troy)/ ton (short) | 1 ounce (troy)/ ton (short) | 34.285 714 2 | g/t |
| 1 g/t | 0.583 333 33 | pennyweights/ ton (short) | 1 pennyweight/ ton (short) | 1.714 285 7 | g/t |

**OTHER USEFUL CONVERSION FACTORS**

| | | |
|---|---|---|
| 1 ounce (troy)/ton (short) | 20.0 | pennyweights/ton (short) |
| 1 pennyweight/ton (short) | 0.05 | ounce (troy)/ton (short) |

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

# DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

| | SOURCES OF DATA | Data | Initial |
|---|---|---|---|
| 1 | Resident Geologist's Office Files | YES | T.SEPT./84 |
| 2 | Assessment Files Research Office, Toronto | YES | T.SEPT./84 |
| 3 | ODM General Index; 7 volumes | YES | T.SEPT./84 |
| 4 | Catalogue of Airborne Geophysical Surveys (ODM) | NO | T.SEPT./84 |
| 5 | ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars | YES | T.SEPT./84 |
| 6 | ODM Industrial Mineral Reports | NO | T.SEPT./84 |
| 7 | Bibliography of Post Precambrian Theses - Karrow (ODM MP 1) | NO | T.SEPT./84 |
| 8 | Bibliography of Precambrian Theses - Ginn (ODM MP 2) | | |
| 9 | Newspaper Clippings File | YES | T.SEPT./84 |
| 10 | GSC Index to Publications | YES | T.SEPT./84 |
| 11 | OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77 | YES | T.SEPT./84 |
| 12 | OGS Index Maps | YES | T.SEPT./84 |
| 13 | Source Mineral Deposit Records (O.G.S.) | | |
| 14 | Author - Subject Articles File | YES | T.SEPT./84 |
| 15 | Miscellaneous Papers: ODM & OGS | YES | T.SEPT./84 |
| 16 | ODM Geological Circulars: OGS Study Series | NO | T.SEPT./84 |
| 17 | ODM Preliminary Reports: ODM Bulletins | YES | T.SEPT./84 |
| 18 | ODM – OGS Open File Reports | YES | T.SEPT./84 |
| 19 | OGS Northern Ontario Engineering Geology Terrain Studies | YES | T.SEPT./84 |
| 20 | OGS Aggregate Resources Inventory Papers | NO | T.SEPT./84 |
| 21 | OGS Mineral Potential Maps | YES | T.SEPT./84 |

# METALS AND MINERALS REFERENCES LIST

| | | | |
|---|---|---|---|
| Δ anh. . . . . .Anhydrite | Δ fu. . . . . .Fuchsite | Δ Ni. . . . . Nickel | Δ st . . . . . .Stone |
| Δ ank. . . . . .Ankerite | Δ gn. . . . . Galena | Δ Nb . . . . . .Niobium | Δ talc. . . . . .Talc |
| Δ anna . . . . . Annabergite | Δ gt . . . . . Garnet | Δ Pd . . . . . .Palladium | Δ Te . . . . . .Tellurium |
| Δ ap. . . . . .Apatite | Δ goe . . . . . .Goethite | Δ peat . . . . . .Peat | Δ td. . . . . Tetrahedrite |
| Δ arg . . . . . Argentite | ▲ Au . . . . . Gold | Δ pent . . . . . .Pentlandite | Δ th. . . . . .Thorite |
| Δ As . . . . . .Arsenic | Δ gf . . . . . .Graphite | Δ Pt. . . . . .Platinum | Δ Th . . . . . .Thorium |
| Δ asp . . . . . .Arsenopyrite | Δ gl . . . . . Gravel | Δ py . . . . . .Pyrite | Δ thuc . . . . . Thucholite |
| Δ asb . . . . . .Asbestos | Δ gyp. . . . . Gypsum | Δ pyl . . . . . Pyrochlore | Δ ti . . . . . Titanite |
| Δ ba. . . . . .Barite | Δ hem . . . . . Hematite | Δ pyrl . . . . . .Pyrolusite | Δ Ti. . . . . Titanium |
| Δ be. . . . . .Beryl | Δ il . . . . . .Ilmenite | Δ po . . . . . .Pyrrhotite | Δ tour . . . . . .Tourmaline |
| Δ Bi. . . . . .Bismuth | Δ Fe . . . . . .Iron | Δ q . . . . . .Quartz | Δ trap . . . . . .Trap rock |
| Δ bn . . . . . .Bornite | Δ IF. . . . . Iron Formation | Δ qcv . . . . .Quartz carbonate vein | Δ W. . . . . Tungsten |
| Δ bran . . . . . .Brannerite | Δ jas . . . . . Jasper | Δ ra. . . . . .Radioactive minerals | Δ uran . . . . . Uraninite |
| Δ bruc . . . . . .Brucite | Δ kaol . . . . . .Kaolinite (kaolin) | Δ RE . . . . . .Rare Earths | Δ U . . . . . .Uranium |
| Δ Cd . . . . . Cadmium | Δ ky . . . . . Kyanite | Δ sd. . . . . Sand | Δ verm . . . . . .Vermiculite |
| Δ calc. . . . . Calcite | Δ Pb . . . . . Lead | Δ sgl . . . . . Sand and gravel | Δ Y . . . . . Yttrium |
| Δ carb . . . . . .Carbonate | Δ lim . . . . . Limonite | Δ ss . . . . . .Sandstone | Δ Zn . . . . . .Zinc |
| Δ cel . . . . . .Celestite | Δ Li. . . . . Lithium | Δ scap . . . . . Scapolite | Δ zr . . . . . Zircon |
| Δ cc. . . . . .Chalcocite | Δ mgst . . . . . .Magnesite | Δ shee . . . . . .Scheelite | |
| Δ cp. . . . . .Chalcopyrite | Δ mag . . . . . .Magnetite | Δ serp . . . . . Serpentine | |
| Δ ch. . . . . .Chert | Δ mc . . . . . Malachite | Δ sh. . . . . .Shale | |
| Δ clay . . . . . .Clay | Δ Mn . . . . . Manganese | Δ sid . . . . . Siderite | |
| Δ Co . . . . . Cobalt | Δ mb . . . . . Marble | Δ si . . . . . .Silica | |
| Δ cob. . . . . Cobaltite | Δ mar. . . . . Marcasite | Δ Ag . . . . . .Silver | |
| Δ cb. . . . . .Columbite | Δ ma . . . . . .Marl | Δ sl . . . . . Slate | |
| Δ Cu . . . . . .Copper | Δ mi . . . . . Mica | Δ sm . . . . . .Smaltite | |
| Δ cor . . . . . Corundum | Δ ml . . . . . .Millerite | Δ sod. . . . . Sodalite | |
| Δ dol . . . . . Dolomite | Δ mo . . . . . Molybdenite | Δ spec . . . . . Specularite | |
| Δ ep. . . . . Epidote | ▲ Mo . . . . . .Molybdenum | Δ sp. . . . . .Sphalerite | |
| Δ ery . . . . . Erythrite | Δ mon . . . . . Monazite | Δ spd. . . . . .Spodumene | |
| Δ fel . . . . . .Feldspar | Δ ne. . . . . Nephelite (nepheline) | Δ staur. . . . . .Staurolite | |
| Δ fl . . . . . .Fluorite (flurospar) | Δ nc. . . . . .Niccolite | Δ stib. . . . . Stibnite | |

**Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.**

## MINERAL OCCURRENCES

| Map Ref. Letter | Name(s) | Mineralization | Source Mineral Deposit Record | References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports | Additional References and/or Remarks |
|---|---|---|---|---|---|
| A | Lac Minerals Ltd. (Main headframe) | Au, Mo | | | OGS, 1984, MP 118 |
| B | Lac Minerals Ltd. (Ventilation shaft) | Au, Mo | | | OGS, 1984, MP 118 |
| C | Noranda Mines Ltd. (Main shaft) | Au, Mo | | | OGS, 1984, MP 118 |
| D | Teck-Corona (Main shaft) | Au, Mo | | | OGS, 1984, MP 118 |



GDIF FORM NO. 1

| TYPE OF WORK | | Numbers below represent the year in which the work was done; e.g., 68 for 1968. | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY<br>COMPANY/AUTHOR (file number) | | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 1 | Americ Mines Ltd.<br>F.N.: 2.6211 | | | 83 | | | | | | | | 83 | 83 | | | | | | | |
| 2 | Ardel Explorations Ltd. | | | | 73 | | | 73 | | | | | | | | | | | | |
| 3 | Bartley, M., Page, T. | 57 | | | | | | | | | | | | | | | | | | |
| 4 | Battle Energy Corp.<br>F.N.: 2.5566 | | | | | | | | | | | 83 | 83 | | | | | | | |
| 5 | Bel-Air Resources Ltd.<br>F.N.: 2.4830, 2.5188 | 82 | | 81 | 82 | | | | | | | 82 | 82 | | | | | | | |
| 6 | Bel Ont Resources Ltd. | | | 83 | | | | | | | | | | | | | | | | |
| 7 | Bell, D. (Goliath Gold Mines)<br>F.N.: 2.4982 | | | | | | | | | | | 82 | 82 | | | | | | | |
| 8 | Bell, D. (Interlake Develop.)<br>F.N.: 2.4983 | | | | | | | | | | | 82 | 82 | | | | | | | |
| 9 | Boos, B. (Manwa Exploration)<br>F.N.: 2.6670, 2.5609, 2.5908, 2.6079 | 83 | 83 | | | | | | | | | 83 | 83 | | 83 | | | | | |
| 10 | Bridge Resources Ltd.<br>F.N.: 2.5274 | | | | | | | | | | | 82 | 82 | | | | | | | |

| TYPE OF WORK | | Numbers below represent the year in which the work was done; e.g., 68 for 1968. | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY | COMPANY/AUTHOR (file number) | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 11 | Brigade Resources Ltd. (Noranda Option) | | | | 84 | | | | | | | | | | | | | | | |
| 12 | Caulfield Resources Ltd. F.N.: 2.5136, 2.5898, 2.5873, 2.5867 | 83 | 82 | | 83 | | | | | | | 82 | 82 | | 83 | | | | | |
| 13 | Consolidated Montelerg Mines F.N.: 2.5817, 2.5818 | | | | | | | | | | | 83 | 83 | | | | | | | |
| 14 | Corona Resources Ltd. F.N.: 2.3645, 2.5818 | | | | 81 | | | | | | | 80 | 80 | | | | | | | |
| 15 | Dakota Energy Corp. F.N.: 2.6005, 2.5899, 2.4481 | 82 | 82 | | 83 | | | | | | | 82 | 82 | | 83 | | | | | |
| 16 | Eagle River Mines Ltd. F.N.: 2.5273 | | | | | | | | | | | 82 | 82 | | | | | | | |
| 17 | Enterprise Development Corp. F.N.: 2.5273 | | | | | | | | | | | 82 | 82 | | | | | | | |
| 18 | Golden Century Resources Ltd. (Lampe Resources) F.N.: 2.6197 | 83 | | | | | | | | | | | | | | | | | | |
| 19 | Gracey, K. (Caravelle Res.) F.N.: 2.5821 | | | | | | | | | | | 82 | 82 | | | | | | | |



GDIF FORM NO. 2

| TYPE OF WORK | | Numbers below represent the year in which the work was done; e.g., 68 for 1968. | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY<br>COMPANY/AUTHOR (file number) | | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 20 | Gracey, K. (Dolphin Resources)<br>F.N.: 2.5673 | | | | | | | | | | | 83 | 83 | | | | | | | |
| 21 | 655 Group Holdings<br>(Canadian Endeavor Mines)<br>F.N.: 2.6157 | | | | | | | | 83 | 83 | | | | | | | | | | |
| 22 | Harlin Resources Ltd.<br>F.N.: 2.5743 | | 83 | | 82 | | | | | | | 82 | 82 | | | | | | | |
| 23 | HRC Hemlo Resources<br>F.N.: 2.6256 | | | | | | | | 83 | 83 | | | | | | | | | | |
| 24 | HRC Hemlo Resources<br>F.N.: 2.6256 | | | | | | | | 83 | 83 | | | | | | | | | | |
| 25 | HRC Hemlo Resources<br>F.N.: 2.6099 | | | | | | | | 83 | 83 | | | | | | | | | | |
| 26 | Lake Superior Mining Corp.<br>F.N.: 63A.43 | 47 | | | 49<br>57<br>59 | 49<br>57<br>59 | | 47 | | | | | | | | | | | | |
| 27 | Long Lac Minerals<br>(Nabigon Option)<br>F.N.: 2.5000 | | | | 83 | | | | | | | 82 | 82 | | | | | | | |

GDIF FORM NO. 2

| TYPE OF WORK | | Numbers below represent the year in which the work was done; e.g., 68 for 1968. | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY | COMPANY/AUTHOR (file number) | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 28 | Lac Minerals (Williams Option) | | | | 83 | | | | | | | | | | | | | | | |
| 29 | Lac Minerals F.N.: 2.6637, 2.6394 | | 83 | | | | | | | | | 83 | 83 | | | | | | | |
| 30 | Lynx Canada F.N.: 2.5694 | | | | | | | | | | | 83 | 83 | | | | | | | |
| 31 | Lynx Canada (Sparton Resources) F.N.: 2.5917 | 83 | | | | | | | | | | 83 | 83 | | | | | | | |
| 32 | 502095 Ontario Ltd. (Melrose Resources) F.N.: 2.6654, 2.6371 | 83 | 83 | | | | | | 83 | 83 | | | | | | | | | | |
| 33 | McGowan, R.[1] F.N.: 2.5989 | 83 | | | | | | | | | | | | | | | | | | |
| 34 | Mid-Canada Explor. Services Ltd. (Melrose Resources)[2] F.N.: 2.2449 | | | | | | | | | | | 82 | 82 | | | | | | | |
| 35 | Newman, R. F.N.: 2.2449 | 77 | 77 | | | | | | | | | | | | | | | | | |

GDIF FORM NO. 2

| TYPE OF WORK | | Numbers below represent the year in which the work was done; e.g., 68 for 1968. | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY<br>COMPANY/AUTHOR (file number) | | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 36 | Ollman-Williams Claims | 47 | | | | | | | | | | | | | | | | | | |
| 37 | Opsal, F. (Interlake Develop.) | | | | 83 | | | | | | | | | | | | | | | |
| 38 | 117454 Canada Ltd. (Pricemore Option) F.N.: 2.6017[3] | | | | 83 | | | | 83 | 83 | | | | | | | | | | |
| 39 | Rose Resources Ltd. F.N.: 2.5766 | | | | | | | | | | | 83 | 83 | | | | | | | |
| 40 | Schiralli, R. (Golden Sceptre) F.N.: 2.4465, 2.4980, 2.4133, 2.5101 | 82 | | 82 | 83 | | | | | | | 82<br>83 | 82<br>83 | | | | | | | |
| 41 | Schiralli, R. (Goliath Gold Mines) F.N.: 2.4126, 2.5101 | 82 | | | 83 | | | | | | | 81 | | | | | | | | |
| 42 | Skopyk, J. (Trudeau Claims) F.N.: 63A.112 | 51 | | | | | | | | | | | | | | | | | | |
| 43 | Teck Exploration Co. (Michano Option) F.N.: 2.5348 | | | | | | | | | | | 82 | 82 | | | | | | | |
| 44 | Teck Exploration Co. (Lake Superior Mining Co. Option) | | | | 51 | | | | | | | | | | | | | | | |

MOLSON LAKE AREA

| TYPE OF WORK | | Numbers below represent the year in which the work was done; e.g., 68 for 1968. | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY | COMPANY/AUTHOR (file number) | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 45 | TGR Resources Ltd.<br>F.N.: 2.6016, 2.6673 | | | | | | | | 83 | 83 | | 84 | 84 | | | | | | | |
| 46 | TGR Resources Ltd.<br>F.N.: 2.6017 | | | | | | | | 83 | 83 | | | | | | | | | | |
| 47 | Thoms, W. (Struthers Group)<br>F.N.: 63A.100 | 50 | | | | | | | | | | | | | | | | | | |
| 48 | Tylox Resources Ltd.<br>F.N.: 2.5826 | | | | | | | | | | | 83 | 83 | | | | | | | |
| | NOTES:<br>1. Filed under 42 C/13SW<br>2. Report only, no maps<br>3. Filed under TGR Resources Ltd. | | | | | | | | | | | | | | | | | | | |



GDIF FORM NO. 2

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 1 a | Ardel Explorations | A - 1 | Nov./73 | 200° | - | 6 | 276 | py | Au |
| b | " " | A - 2 | " | 200° | -45° | 9 | 251 | | Au |
| c | " " | A - 3 | " | 200° | -45° | 2.7 | 262 | py, ep | Au |
| 2 | Bel-Air Resources | BA - 1 | Aug./82 | 180° | -50° | 1.96 | 446.85 | py, po | Au |
| 3 | " " " | BA - 2 | Sept./82 | 180° | -40° | 18.04 | 492.45 | py, po | Au |
| 4 | " " " | BA - 3 | " | 180° | -45° | 9.84 | 451.11 | py, po | Au |
| 5 a | " " " | BA - 4 | " | 180° | -45° | 9.84 | 616.79 | py, po | Au |
| b | " " " | BA - 5 | " | 180° | -75° | 9.51 | 350.72 | py, po, mag | Au |
| 6 | " " " | BA - 6 | " | 180° | -50° | 8.20 | 346.78 | py, po, mag | Au |
| 7 | " " " | BA - 7 | " | 180° | -45° | 11.15 | 242.12 | py, po, graph | Au |
| 8 | " " " | BA - 8 | " | 180° | -50° | 12.79 | 396.98 | py, mag | Au |
| 9 | Caulfield Resources | 427-83-1 | June/83 | 160° | -50° | 6 | 514 | py, graph | Au |
| 10 | " " | 427-83-2 | " | 160° | -50° | 6 | 843 | py | Au |
| 11 | " " | 427-83-3 | July/83 | 160° | -50° | 8 | 583 | py | Au |
| 12 | " " | 427-83-4 | " | 160° | -50° | 22 | 454 | py | Au |
| 13 | " " | 427-83-5 | " | 160° | -50° | 48 | 618 | | Au |
| 14 | " " | 427-83-6 | " | 160 | -50° | 6 | 800 | py | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 15 | Caulfield Resources | 427-83-6a | July/83 | 160° | -50° | 8 | 301 | py | Au |
| 16 a | Corona Resources | CR 81- 1 | Jan./81 | 197° | -45° | 12 | 202 | py, fu, VG | Au |
| b | " " | CR 81- 2 | " | 197° | -70° | 10 | 241 | py, fu | Au |
| c | " " | CR 81- 3 | " | 197° | -85° | 10 | 300 | py, fu | Au |
| d | " " | CR 81- 4 | " | 197° | -45° | 12 | 201 | py, fu | Au |
| e | " " | CR 81- 5 | " | 197° | -70° | 12 | 240 | py, fu, VG | Au |
| f | " " | CR 81- 6 | " | 197° | -45° | 10 | 200 | py, fu | Au |
| g | " " | CR 81- 7 | " | 197° | -70° | 10 | 240 | py, fu | Au |
| h | " " | CR 81- 8 | " | 197° | -85° | 10 | 285 | py, fu | Au |
| i | " " | CR 81- 9 | " | 197° | -45° | 16 | 130 | py, fu | Au |
| j | " " | CR 81-10 | " | 197° | -70° | 10 | 150 | py, fu | Au |
| k | " " | CR 81-11 | Feb./81 | 197° | -65° | 10 | 220 | py, fu | Au |
| l | " " | CR 81-12 | " | 197° | -85° | 10 | 275 | py, fu | Au |
| m | " " | CR 81-13 | " | 197° | -45° | 14 | 120 | py, fu | Au |
| n | " " | CR 81-14 | " | 197° | -70° | 10 | 150 | py, fu | Au |
| o | " " | CR 81-15 | " | 197° | -85° | 10 | 200 | py, fu | Au |
| p | " " | CR 81-16 | " | 197° | -65° | 10 | 300 | py, fu | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 16 q | Corona Resources | CR 81-17 | Feb./81 | 197° | -85° | 10 | 350 | py, fu | Au |
| r | " " | CR 81-23 | " | 197° | -65° | 10 | 300 | py, fu | Au |
| s | " " | CR 81-24 | May/81 | 197° | -85° | 10 | 380 | py, fu | Au |
| t | " " | CR 81-25 | Mar./81 | 197° | -65° | 10 | 340 | py, fu | Au |
| u | " " | CR 81-26 | " | 197° | -85° | 10 | 450 | py, fu | Au |
| v | " " | CR 81-100 | May/81 | 197° | -90° | 10 | 701 | py, fu | Au |
| 17 a | " " | CR 81-18 | Mar./81 | 197° | -65° | 10 | 300 | py, fu | Au |
| b | " " | CR 81-19 | " | 197° | -85° | 10 | 380 | py, fu | Au |
| c | " " | CR 81-20 | " | 197° | -45° | 10 | 250 | py, fu | Au |
| d | " " | CR 81-21 | " | 197° | -65° | 10 | 280 | py, fu | Au |
| e | " " | CR 81-22 | " | 197° | -85° | 10 | 307 | py, fu | Au |
| f | " " | CR 81-27 | " | 197° | -75° | 10 | 417 | py, fu | Au |
| g | " " | CR 81-28 | " | 197° | -88° | 10 | 500 | py, fu | Au |
| h | " " | CR 81-29 | " | 197° | -45° | 10 | 250 | py, fu | Au |
| i | " " | CR 81-30 | " | 197° | -70° | 8 | 277 | py, fu | Au |
| j | " " | CR 81-55 | April/81 | 197° | -70° | 10 | 400 | py, fu | Au |
| k | " " | CR 81-56 | May/81 | 197° | -88° | 10 | 525 | py | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 17 l | Corona Resources | CR 81-57 | May/81 | 197° | -45° | 12 | 350 | py, fu | Au |
| m | " " | CR 81-58 | " | 197° | -75° | 10 | 390 | mo, py, fu | Au |
| n | " " | CR 81-59 | " | 197° | -88° | 10 | 501 | py, fu | Au |
| o | " " | CR 81-99 | June/81 | 197° | -90° | 10 | 700 | py, fu | Au |
| p | " " | CR 81-101 | " | 197° | -88° | 12 | 500 | py, fu | Au |
| q | " " | CR 81-102 | " | 197° | -45° | 12 | 350 | py | Au |
| r | " " | CR 81-103 | " | 197° | -70° | 12 | 425 | py | Au |
| 18 a | " " | CR 81-31 | Mar./81 | 197° | -45° | 20 | 181 | py, fu | Au |
| b | " " | CR 81-32 | " | 197° | -80° | 10 | 167 | py, fu | Au |
| c | " " | CR 81-33 | " | 197° | -45° | 20 | 120 | py, fu | Au |
| d | " " | CR 81-34 | " | 197° | -80° | 14 | 150 | py, fu | Au |
| e | " " | CR 81-35 | " | 197° | -45° | 10 | 650 | py, ep | Au |
| f | " " | CR 81-36 | April/81 | 197° | -80° | 10.5 | 150 | py, fu | Au |
| g | " " | CR 81-37 | " | 197° | -45° | 18 | 120 | py, fu | Au |
| h | " " | CR 81-38 | " | 197° | -80° | 10 | 150 | py, fu | Au |
| i | " " | CR 81-39 | " | 197° | -50° | 10 | 450 | py, fu | Au |
| j | " " | CR 81-40 | " | 197° | -80° | 10 | 500 | py, fu | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 18 k | Corona Resources | CR 81-41 | April/81 | 197° | -50° | 10 | 450 | py, fu | Au |
| l | " " | CR 81-42 | " | 197° | -80° | 10 | 500 | py, fu | Au |
| m | " " | CR 81-43 | " | 197° | -75° | 10 | 597 | py, fu | Au |
| n | " " | CR 81-44 | " | 197° | -90° | 15 | 650 | py, po, fu | Au |
| o | " " | CR 81-45 | " | 197° | -45° | 12 | 160 | py, fu | Au |
| p | " " | CR 81-46 | " | 197° | -85° | 10 | 230 | py, fu | Au |
| q | " " | CR 81-47 | " | 197° | -60° | 10 | 260 | py, fu | Au |
| r | " " | CR 81-48 | " | 197° | -85° | 10 | 380 | py, fu | Au |
| s | " " | CR 81-49 | " | 197° | -60° | 10 | 300 | py, fu | Au |
| t | " " | CR 81-50 | May/81 | 197° | -85° | 10 | 450 | py, po, fu | Au |
| u | " " | CR 81-51 | " | 197° | -85° | 10 | 450 | py, fu | Au |
| v | " " | CR 81-52 | " | 197° | -50° | 10 | 546 | py, fu | Au |
| w | " " | CR 81-53 | " | 197° | -50° | 10 | 325 | py, fu | Au |
| x | " " | CR 81-54 | " | 197° | -85° | 10 | 425 | py, fu | Au |
| 19 a | " " | CR 81-65 | April/81 | 197° | -45° | 12 | 300 | py, fu | Au |
| b | " " | CR 81-66 | " | 197° | -80° | 10 | 217 | py, fu | Au |
| c | " " | CR 81-67 | " | 197° | -45° | 10 | 120 | py | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 19 d | Corona Resources | CR 81-68 | April/81 | 197° | -80° | 10 | 180 | py, fu | Au |
| e | " " | CR 81-69 | " | 197° | -45° | 10 | 140 | py | Au |
| f | " " | CR 81-70 | " | 197° | -80° | 10 | 180 | py, po | Au |
| g | " " | CR 81-71 | " | 197° | -45° | 10 | 58 | | |
| h | " " | CR 81-72 | " | 197° | -45° | 10 | 281 | py, fu | Au |
| i | " " | CR 81-73 | " | 197° | -80° | 10 | 350 | py, fu | Au |
| j | " " | CR 81-74 | " | 197° | -85° | 10 | 351 | py, fu | Au |
| k | " " | CR 81-95 | June/81 | 197° | -45° | 12 | 177 | py, fu, mag | Au |
| l | " " | CR 81-94 | " | 197° | -80° | 12 | 250 | py, mag | Au |
| m | " " | CR 81-97 | July/81 | 197° | -45° | 10 | 175 | py, VG | Au |
| n | " " | CR 81-98 | " | 197° | -80° | 10 | 230 | py, fu | Au |
| o | " " | CR 81-109 | " | 197° | -45° | 10 | 175 | py | Au |
| p | " " | CR 81-110 | " | 197° | -80° | 10 | 230 | py, fu | Au |
| 20 a | " " | CR 81-62 | April/81 | 197° | -50° | 19 | 500 | py | Au |
| b | " " | CR 81-63 | " | 197° | -50° | 16 | 350 | py, po | Au |
| c | " " | CR 81-64 | " | 197° | -50° | 15 | 350 | py | Au |
| d | " " | CR 81-60 | " | 197° | -55° | 12 | 500 | po, cp, py | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 20 e | Corona Resources | CR 81-61 | April/81 | 197° | -50° | 10 | 500 | py, po | Au |
| 21 a | " " | CR 81-75 | " | 197° | -45° | 10 | 350 | py | Au |
| b | " " | CR 81-76 | " | 197° | -80° | 10 | 497 | py, mo, fu, VG | Au |
| c | " " | CR 81-77 | May/81 | 197° | -45° | 10 | 400 | py, po | Au |
| d | " " | CR 81-78 | " | 197° | -80° | 10 | 500 | py, sph | Au |
| e | " " | CR 81-84 | " | 197° | -55° | 10 | 300 | py, fu | Au |
| f | " " | CR 81-85 | " | 197° | -85° | 10 | 400 | py, fu | Au |
| g | " " | CR 81-86 | June/81 | 197° | -80° | 4 | 500 | py, fu | Au |
| h | " " | CR 81-87 | " | 197° | -45° | 10 | 470 | py, fu | Au |
| i | " " | CR 81-88 | " | 197° | -75° | 10 | 570 | py, fu | Au |
| j | " " | CR 81-89 | " | 197° | -80° | 12 | 500 | py, po, fu | Au |
| k | " " | CR 81-91 | " | 197° | -70° | 10 | 550 | py, fu | Au |
| l | " " | CR 81-92 | " | 197° | -90° | 10 | 677 | py, fu | Au |
| m | " " | CR 81-95 | " | 197° | -45° | 10 | 399 | py, fu | Au |
| n | " " | CR 81-96 | " | 197° | -80° | 10 | 477 | py, fu | Au |
| o | " " | CR 81-106 | July/81 | 197° | -50° | 12 | 400 | py | Au |
| p | " " | CR 81-107 | " | 197° | -65° | 6 | 500 | py, fu | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 21 q | Corona Resources | CR 81-108 | July/81 | 197° | -80° | 6 | 600 | py, VG | Au |
| r | " " | CR 81-111 | " | 197° | -60° | 12 | 450 | py | Au |
| j | " " | CR 81-112 | " | 197° | -80° | 10 | 600 | py, fu | Au |
| t | " " | CR 81-113 | " | 197° | -60° | 12 | 450 | py, fu, po | Au |
| u | " " | CR 81-114 | " | 197° | -80° | 10 | 600 | py, fu | Au |
| v | " " | CR 81-121 | Aug./81 | 197° | -85° | 10 | 635 | py, fu | Au |
| w | " " | CR 81-123 | " | 197° | -85° | 4 | 598 | py, fu | Au |
| 22 a | " " | CR 81-79 | May/81 | 197° | -45° | 10 | 300 | py | Au |
| b | " " | CR 81-80 | " | 197° | -80° | 10 | 54 | py | |
| c | " " | CR 81-90 | June/81 | 197° | -80° | 10 | 440 | py, fu | Au |
| d | " " | CR 81-116 | July/81 | 197° | -60° | 10 | 450 | py, VG | Au |
| e | " " | CR 81-117 | " | 197° | -70° | 10 | 550 | py, VG, po | Au |
| f | " " | CR 81-118 | " | 197° | -90° | 6 | 625 | py, VG | Au |
| g | " " | CR 81-119 | " | 197° | -60° | 10 | 450 | py, VG | Au |
| h | " " | CR 81-120 | Aug./81 | 197° | -80° | 10 | 387 | py, po, VG | Au |
| i | " " | CR 81-122 | " | 197° | -45° | 12 | 280 | py | Au |
| j | " " | CR 81-124 | " | 197° | -60° | 10 | 320 | py | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 22 k | Corona Resources | CR 81-125 | Aug./81 | 197° | -90° | 6 | 350 | py | Au |
| 1 | " " | CR 81-126 | " | 197° | -90° | 4 | 170 | py | Au |
| m | " " | CR 81-130 | " | 197° | -60° | 6 | 400 | py | Au |
| n | " " | CR 81-131 | " | 197° | -85° | 12 | 500 | py | Au |
| o | " " | CR 81-134 | " | 197° | -75° | 8 | 650 | py | Au |
| 23 | Dakota Energy Corporation | 426-83-1 | Aug./83 | 160° | -50° | 11 | 403 | po, py, cp | Au, Ag |
| 24 | " " " | 426-83-2 | " | 160° | -50° | 9 | 960 | py, po | Au |
| 25 | " " " | 426-83-3 | " | 160° | -50° | 9 | 512 | py, po, cp | Au |
| 26 | " " " | 426-83-4 | " | 160° | -50° | 21 | 413 | py, po | Au |
| 27 | " " " | 426-83-5 | " | 160° | -50° | 10 | 406 | py, po | Au |
| 28 1 | " " " | 426-83-6 | Sept./83 | 160° | -50° | 12 | 402 | py, po | Au |
| 28 2 | " " " | 426-83-7 | " | 160° | -50° | 35 | 176 | py, po | Au |
| 29 a | Lake Superior Mining Corp. | E 1 | Oct./49 | 198° | -52° | 2.5 | 622 | py, gt | Au |
| b | " " " " | E 2 | Dec./49 | 198° | -55° | 10 | 430 | py, gt | Au |
| c | " " " " | E 3 | Jan./50 | 198° | -55° | 5 | 463 | py, gt | Au |
| d | " " " " | E 4 | " | 198° | -32° | 3 | 297 | py | Au |
| e | " " " " | E 5 | " | 198° | -53° | 3 | 302 | py. ep | Au |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 29 f | Lake Superior Mining Corp. | E 6 | Feb./50 | 198° | -60° | 6 | 406 | py | Au |
| g | " " " " | E 7 | Mar./50 | 198° | -36° | 7 | 385 | py, po | Au |
| h | " " " " | E 8 | April/50 | 198° | -60° | - | 417 | py | |
| 30 a | " " " " | PS 1 | July/57 | 195° | -45° | - | 51 | py | Au |
| b | " " " " | PS 2 | " | 185° | -45° | 10 | 60 | py, cp | Au |
| c | " " " " | PS 3 | " | 180° | -55° | - | 30 | py, cp | Au |
| d | " " " " | PS 4 | " | 185° | -58° | - | 34 | py, cp | Au |
| e | " " " " | PS 5 | " | 190° | -54° | 9 | 51 | py, cp | Au |
| f | " " " " | PS 6 | " | 180° | -62° | - | 32 | py, ep | Au |
| g | " " " " | PS 7 | " | 200° | -65° | - | 31 | py | Au |
| h | " " " " | C 1 | Feb./59 | 201° | -45° | 8 | 140 | py | |
| i | " " " " | C 3 | " | 200° | -45° | 10 | 220 | py, tour | |
| 31 | Lac Minerals | N83DH001 | Mar./83 | 180° | -45° | 19.68 | 364.17 | py | |
| 32 | " " | N83DH003 | " | 180° | -45° | 6.56 | 337.92 | py, gf, po | |
| 33 | " " | W 29 | Jan./83 | - | -90° | 16.40 | 426.50 | py, po, aspy | |
| 34 | Interlake Development | IL 1 | Mar./83 | 180° | -48° | 12 | 321 | py, po | |
| 35 | " " | IL 2 | " | 180° | -48° | 10 | 401 | py, mag | |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 36 | Interlake Development | IL 3 | Mar./83 | 180° | -50° | 28 | 301 | | |
| 37 | " " | IL 4 | April/83 | 180° | -50° | 30 | 351 | py | |
| 38 | " " | IL 5 | " | 180° | -50° | 12 | 351 | py | |
| 39 | " " | IL 6 | " | 180° | -50° | 12 | 401 | py | |
| 40 | " " | IL 7 | " | 180° | -50° | 12 | 307 | py, graph, mag | |
| 41 | " " | IL 9 | " | 182° | -48° | 13 | 301 | py, po, graph | |
| 42 | " " | IL 11 | June/83 | 177° | -48° | 13 | 300 | py, po, graph, cpy | |
| 43 | " " | IL 14 | " | 182° | -47° | 14 | 348 | py | |
| 44 | " " | IL 17 | " | 207° | -48° | 12 | 647 | po, py | |
| 45 | " " | IL 18 | " | 205° | -48° | 10 | 380 | po, py, graph | |
| 46 | " " | IL 19 | " | 200° | -47° | 8 | 300 | py, po, graph | |
| 47 | " " | IL 20 | " | 188° | -48° | 10 | 300 | py, po, graph | |
| 48 | " " | IL 21 | " | 171° | -48° | 30 | 347 | po, graph | |
| 49* | " " | IL 24 | " | 181° | -48° | 30 | 467 | po, py, graph | |
| 50[1] | " " | IL 25 | " | 181° | -49° | 46 | 376 | po, py, graph | |
| 51 | " " | IL I | Sept./83 | | | | | | |
| 52[2] | " " | IL II | " | | | | | | |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 53 | Golden Sceptre (Noranda) | NGS- 33 | Mar./83 | 180° | -50° | - | 1122.04 | py, ky, po | |
| 54[1] | " " " | NGS- 36 | April/83 | 180° | -50° | 5.24 | 1036.74 | py | |
| 55 | " " " | NGS- 38 | " | 180° | -50° | 15.41 | 1040.02 | py, po | |
| 56 | " " " | NGS- 40 | May/83 | 180° | -50° | 3.60 | 1630.57 | py, po, cpy, gr | |
| 57 | " " " | NGS- 41 | " | 180° | -50° | 6.56 | 646.32 | py, po, cpy | |
| 58 | " " " | NGS- 43 | " | 180° | -50° | 1.64 | 328.08 | py, po | |
| 59 | " " " | NGS- 25 | Feb./83 | 180° | -50° | 13.12 | 1151.57 | py, tour, mo | |
| 60 | " " " | NGS- 26 | Mar./83 | 172° | -50° | - | 984.25 | py, mo, tour, po, mag, graph | |
| 61 | " " " | NGS- 27 | " | 285° | -50° | 1.64 | 872.70 | py, carb | |
| 62 | " " " | NGS- 29 | " | 172° | -50° | 14.76 | 1010.49 | py, sb, sphal | |
| 63[1] | " " " | NGS- 31 | " | 172° | -50° | 6.56 | 1017.06 | py, mag, graph | |
| 64[1] | " " " | NGS- 32 | " | 180° | -50° | 9.84 | 853.01 | graph, py | |
| 65 | Goliath (Noranda) | NGE- 3 | " | 198° | -50° | 8.85 | 1164.69 | py, po, mo | |
| 66 | " " | NGG- 20 | Dec./82 | 200° | -87° | 11.48 | 2791.99 | py, po, Au | |
| 67 | " " | NGG- 21 | Jan./83 | 210° | -87° | 12.13 | 2690.28 | py, mo | |
| 68 | " " | RDB- 4 | " | 288° | -45° | 22.63 | 1161.41 | py, po | |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 69 a | Golden Sceptre (Noranda) | NGS- 34 | April/83 | 190° | -50° | 13.12 | 1010.49 | py, mag | |
| b | " " " | NGS- 37 | " | 180° | -50° | 9.84 | 1049.86 | po, py | |
| c | " " " | NGS- 39 | " | 180° | -50° | 52.49 | 459.31 | py, po, mo | |
| d | " " " | NGS- 42 | " | 180° | -50° | 18.04 | 656.16 | py | |
| 70 a | Teck Exploration (Lake Superior Mining) | T 1 | Jan./51 | 197° | -60° | 2 | 255 | | |
| b | " " | T 2 | " | 197° | -60° | - | 389 | py | |
| c | " " | T 3 | Feb./51 | 197° | -60° | 9 | 530 | | |
| d | " " | T 8 | Mar./51 | 197° | -70° | 1 | 295 | py | |
| 71 | Noranda (Brigade Resources) | NBG- 01 | Jan./84 | - | -90° | 3.93 | 1207.34 | | |
| 72 | Harlin Resources | H-1-82 | Nov./82 | 200° | -60° | 10 | 500 | py, po | |
| 73 | " " | H-2-82 | " | 200° | -60° | 10 | 500 | py, po | |
| 74 | " " | H-3-82 | " | 200° | -60° | 10 | 500 | po, py | |
| 75 | " " | H-4-82 | " | 200° | -50° | 8 | 500 | po, py | |
| 76 a | 117454 Canada Ltd. | PO 1 | Sept./83 | 215° | -45° | 5 | 207 | py, mo | Au, Ag, Mo |
| b | " " " | PO 2 | " | 215° | -60° | 6 | 282 | py, mo | Au, Ag, Mo |
| 77 a | " " " | PO 3 | " | 225° | -45° | 20 | 207 | py | |
| b | " " " | PO 4 | " | 225° | -60° | 10 | 387 | | |

GDIF FORM NO. 3

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth | Initial Dip of Hole | Thickness of Overburden (feet) | Total Length of Hole (feet) | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 78 | 117454 Canada Ltd. | PO 5 | Sept./83 | 225° | -45° | 4 | 225 | | Au, Ag, Mo |

NOTES:

* Drill location not shown
1. Drill location not known
2. Drill location only

GDIF FORM NO. 3

## AIRBORNE GEOPHYSICAL SURVEY DATA

| No. | By / For | Type of Survey | Flight Altitude | Flight Line Direction | Flight Line Spacing |
|---|---|---|---|---|---|
| 21 | Aerodat Limited<br>Coopers Terrex Resources<br>(Canadian Endeavor Mines) | Magnetic, Electromagnetic, VLF-E.M. | 60 metres | North/South | 100 metres |
| 23 | Aerodat Limited | Magnetic, Electromagnetic, VLF-E.M. | 60 metres | North/South | 100 metres |
| 24,25 | HRC Hemlo Resources Corporation | | | | |
| 32 | Aerodat Limited<br>Melrose Resources Limited | Magnetic, Electromagnetic, VLF-E.M. | 60 metres | North/South | 100 metres |
| 45,46 | Aerodat Limited<br>TGR Resources Limited | Magnetic, Electromagnetic, VLF-E.M. | 60 metres | North/South | 100 metres |

GDIF FORM NO. 4

## GEOCHEMICAL SURVEY DATA

| Map Sample Site Reference Number | Type of Survey | Analysis For | By | Reference |
|---|---|---|---|---|
| 1 | Soil Geochemistry (B Horizon) | Au, Ag | Manwa Exploration (Boos, B.) | Resident Geologist's Assessment Files, Thunder Bay |
| 2 | Soil Geochemistry (B Horizon) | Au, Ag, Hg | Loydex Resources (Caulfield Resources) | Resident Geologist's Assessment Files, Thunder Bay |
| 3 | Soil Geochemistry (B Horizon) | Au, Ag | Loydex Resources (Dakota Resources) | Resident Geologist's Assessment Files, Thunder Bay |
| 4 | Soil Geochemistry (B Horizon) | Au, Ag, Cu, Pb, Zn | R. G. Newman | Resident Geologist's Assessment Files, Thunder Bay |
| 5 | Soil Geochemistry (B Horizon) | Au, Mo | Lac Minerals | Resident Geologist's Assessment Files, Thunder Bay |
| 6 | Soil Geochemistry (B Horizon) | Au, Cu, Pb, Zn | Melrose Resources | Resident Geologist's Assessment Files, Thunder Bay |
| 7 | Soil Geochemistry (A, B, & C Horizons) | Au, Ag, Cu, Pb, Zn, Mo, Ba, Se, Co, Al, Fe, Th, Sb, V | Harlin Resources | Resident Geologist's Assessment Files, Thunder Bay |

GDIF FORM NO. 5

# MISCELLANEOUS DATA

## AGE DATING

| Site | Method | Material | Reference | Result |
|---|---|---|---|---|
| | | | | |

# NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Thunder Bay

Americ Mines Limited
Battle Energy Corporation
Bel-Air Resources Limited
Bell, David
Goliath Gold Mines
Interlake Development
Bridge Resources Limited
Brigade Resources Limited
Caulfield Resources Limited
Consolidated Montelerg Mines
Corona Resources Limited
Dakota Energy Corporation
Eagle River Mines Limited
Enterprise Development Corporation
Golden Century Resources Limited
Lampe Resources
Harlin Resources Limited
Lake Superior Mining Corporation
Long Lac Minerals
Lac Minerals
Lynx Canada
Sparton Resources
Melrose Resources
Mid-Canada Exploration Services Limited
Rose Resources Limited
Golden Sceptre
Goliath Gold Mines
Teck Exploration

# ODM GENERAL INDEX SEARCH

**Words searched:** Ardel Explorations, Bartley, M., Black River, Cedar Creek, Cedar Lake, Hemlo, Lecours Township, Lake Superior Mining Corporation, Ollman, J., Page, T., Struthers, Trudeau, Williams, J. K.

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| 1 | Hemlo, near Trudeau, Thunder Bay District | 21 | 1 | 231 |
| | Pic River, Lake Superior, Thunder Bay District | | | |
| | Gold mining | R.C. | | 115 |
| | Maps, sketch | 17 | | 129 |
| | Rocks in and near | 8 | | 131, 133, 167 |
| | Gneiss, photo | 18 | 1 | 151 |
| | Huronian | 4 | | 124 |
| | Petrography | 7 | | 148 |
| | Sandstone | 9 | | 161 |
| | Siliceous | 9 | | 183 |
| | Syenite | 19 | 1 | 198, 212, 230 |
| | Silver near | R.C. | | 29 |
| | Struthers, near Trudeau, Thunder Bay District | 22 | 1 | 231 |
| | Trudeau, West of White River, Thunder Bay District | | | |
| | Explorations between, and Missinaibi River paper by Borron | 5 | | 241-258 |
| | Rocks near | 22 | 1 | 231 |
| 3 | Black River, Pic River | | | |
| | Rocks | 40 | 2 | 30 |
| | | 41 | 6 | 40 |
| | Hemlo, Township 74, Thunder Bay District | | | |
| | Mining claims, mineralization | 41 | 6 | 43 |
| | Rocks | 40 | 2 | 27 |
| | | 41 | 6 | 40 |
| | Ollman gold claims, Pic Township | | | |
| | Ownership | 47 | 1 | 181 |
| 4 | Lake Superior Mining Corp. Ltd. | | | |
| | Incorporated | 57 | 1 | 47 |
| 6 | Black River, Pic River | | | |
| | Mining claims | 66 | 8 | 88 |
| 8 | Ardel Explorations Ltd. | | | |
| | Township 73, Thunder Bay District | MP057 | | 149 |

GDIF FORM NO. 8

# ODM GENERAL INDEX SEARCH

**Words searched:**

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| 8 | Black River Area, Thunder Bay District<br>Cu/Ni/Pb/Zn | GR072 | | 56-63 |
| | Geology of the area<br>Report & maps 2143 thru 2147<br>by V. G. Milne, 1968 | GR072 | | |

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | REGIONAL GEOLOGICAL COMPILATION MAPS | | |
| Ayres, L. D., Lumbers, S. B., Milne, V. G., Robeson, S. W. | 1971 | Ontario Geological Map, West Central Sheet. | ODMNA, Map 2199 | 1 inch to 16 miles |
| Milne, V. G., et al | 1972 | Manitouwadge - Wawa Sheet, Algoma, Cochrane, Sudbury and Thunder Bay Districts; Ontario Geological Compilation Series. Associated map P-541. | ODM Map 2220 | 1 inch to 4 miles |
| | | GEOLOGICAL MAPS AND REPORTS | | |
| Bell, R. | 1872 | Report on the Country North of Lake Superior, between the Nipigon and Michipicoten Rivers, Ontario. | GSC, Report of Progress 1870-1871, Pt. VIII | |
| Card, K. D. | 1981 | Compilation of Bedrock Geology of Central Superior and Southern Provinces, Ontario. | GSC - OFR 729 | 1:250,000 |
| Colvine, A. C. (Ed.) | | The Geology of Gold in Ontario. | OGS, MP 110 | pp. 226-240 |
| GSC | 1935 | Lake Nipigon Sheet, Ontario. | GSC, Map 308A | 1 inch to 8 miles |
| Logan, W. E. | 1847 | Remarks on the Mining Region of Lake Superior: addressed to the Committee of the Honorable Executive Council, and the Report on Mining Locations Claimed on the Canadian Shores of the Lake, addressed to the Commissioner of Crown Lands. | GSC, Separate Report 391 | |
| Muir, T. L. | 1982 | Geology of the Hemlo Area, District of Thunder Bay, Ontario. Accompanied by Map 2452. Associated maps P-2304, P-2305. | OGS Report 217 | p. 65 1:31,680 |

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| Patterson, G. C., et al | 1983 | Report of Activities 1983 Regional and Resident Geologists. | OGS MP 117 | pp. 69-79 |
| Patterson, G. C. | 1984 | Field Trip Guidebook to the Hemlo Area. | OGS MP 118 | |
| Thomson, J. E. | 1931 | Geology of the Heron Bay Area, District of Thunder Bay. Accompanied by map 40D. | ODM Annual Report Vol. 40, Pt. 2 | pp. 21-39 |
| Thomson, J. E. | 1933 | Geology of the Heron Bay - White Lake Area, Thunder Bay District, Ontario. Accompanied by map 41J. | ODM Annual Report 1932, Vol. 41, Pt. 6 | pp. 34-47<br>1 inch to 2 miles |
| Wilson, W. J. | 1904 | The Nagagami River and other Branches of the Kenogami, Ontario. Accompanied by map 847. | GSC AR Vol. 15, Pt. A | |
| | | GEOPHYSICAL MAPS AND REPORTS | | |
| GSC - OGS | 1963 | Aeromagnetic Series Map, Herrick Lake, Ontario. | Map 2167G | 1 inch to 1 mile |
| GSC - OGS | 1963 | Aeromagnetic Series Map, White Lake, Ontario. | Map 7087G | 1 inch to 4 miles |
| | | GEOCHEMICAL MAPS AND REPORTS | | |
| GSC | 1981 | National Geochemical Reconnaissance coloured Compilation Map Series; Lake Superior, Ontario. | GSC - OFR 746 | 1:200,000 |
| GSC - OGS | 1979 | Regional Lake Sediment and Water Geochemistry Reconnaissance Data, Eastern Shore Lake Superior, NTS 42 C and 42 F/S, Algoma and Thunder Bay Districts, Ontario. Accompanied by maps 80000 to 80015. | OGS - OFR 5267 | |

GDIF FORM NO.9

# SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | MINERAL PORTENTIAL MAPS | | |
| Springer, J. S. | 1977 | Ontario Mineral Potential, White River Sheet, NTS 42 C, Thunder Bay and Algoma Districts, Ontario. | OGS Map P-1519 | 1:250,000 |
| Springer, J. S., et al | 1982 | Mineral Potential Map of Ontario, West Central Sheet. | OGS - OFR 5326 | 1 inch to 16 miles |
| | | SURFICIAL, PLEISTOCENE AND TERRAIN ENGINEERING | | |
| Boissoneau, A. N. | 1965 | Algoma-Cochrane Surficial Geology, NTS 32 D, E, 42 A, B, C, F, G, H, Ontario. | ODLF, Map S3-65 | 1 inch to 8 miles |
| Gartner, J. F., McQuay, D. F. | 1980 | Northern Ontario Engineering Geology Terrain Study, White River Area, NTS 42 C/NW, Thunder Bay and Algoma Districts, Ontario. Accompanied by maps 5094, 5098. | OGS NOEGTS 61 | 1:100,000 |

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | | | |

GDIF FORM NO.9

# NOTES AND ADDENDA

86° 00'

48° 45'

Valley Cr.

River

48

Cedar Cr.

32,34

17

10

20

21

Gaby Cr.

23

Gowan

32,34

Black Cr.

16

4

Jeanine Cr.

30

1

15

12

31

19

Kenel Cr.

8,37

27

8,37

11

9

43

40

35,40

28,36

41

43

13

39

Rule L.

26

MOOSE L.

26,2

Kenel Cr.

41

Little Cedar L.

39

MICRO-WAVE

26,40

2,3,14,26,44

40

5

6,5

Cigar L.

Hemlo

5

7,41

22

41

26,2

Struthers

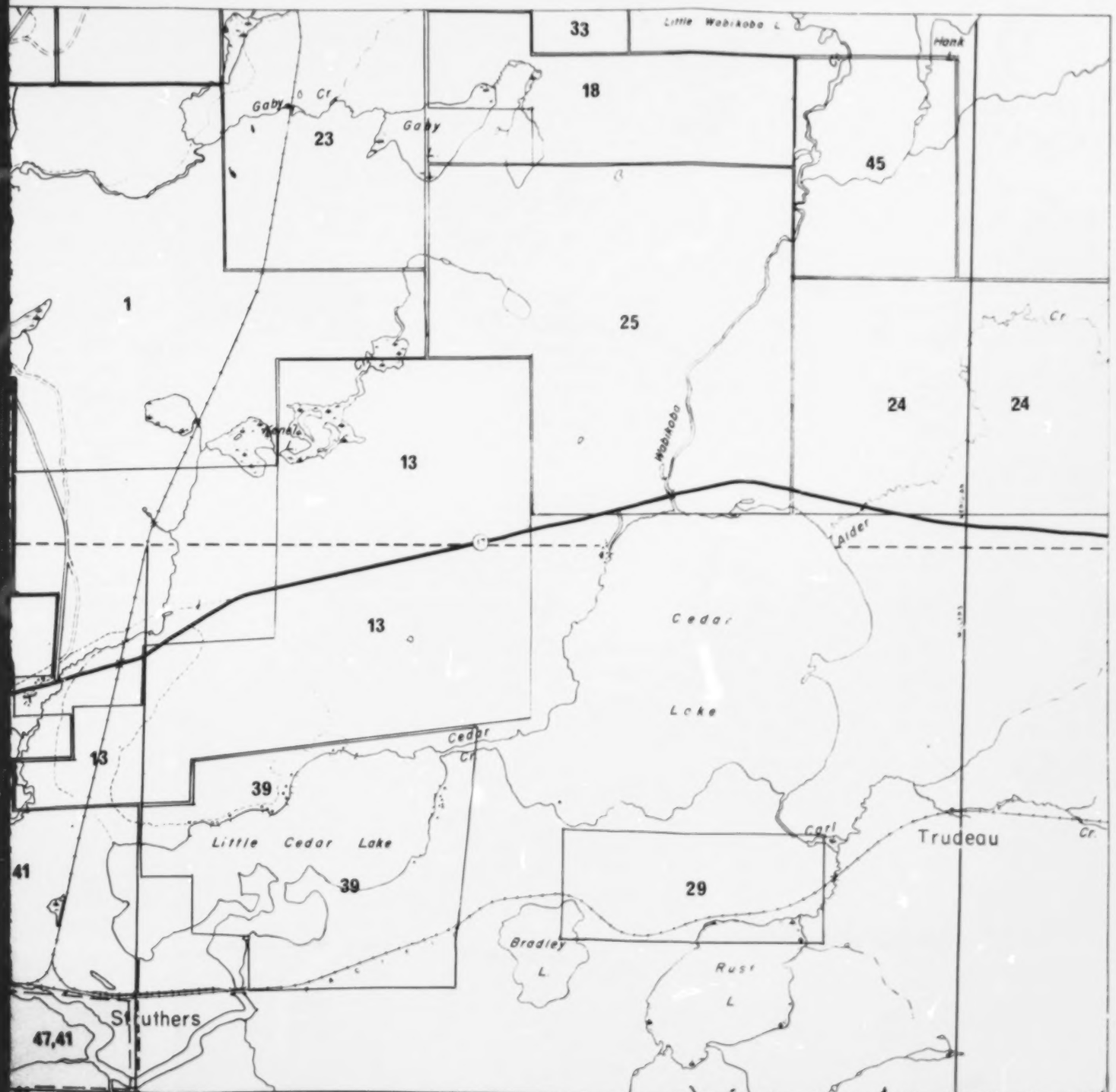
47,41

MILLER'S BASE LINE

Cache

85° 45'

48° 45'




Ministry of Natural Resources

Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

**PROPERTY LOCATION MAP**

**GEOLOGICAL DATA INVENTORY FOLIO 208**

( Map **1** of **2** )

# MOLSON LAKE AREA

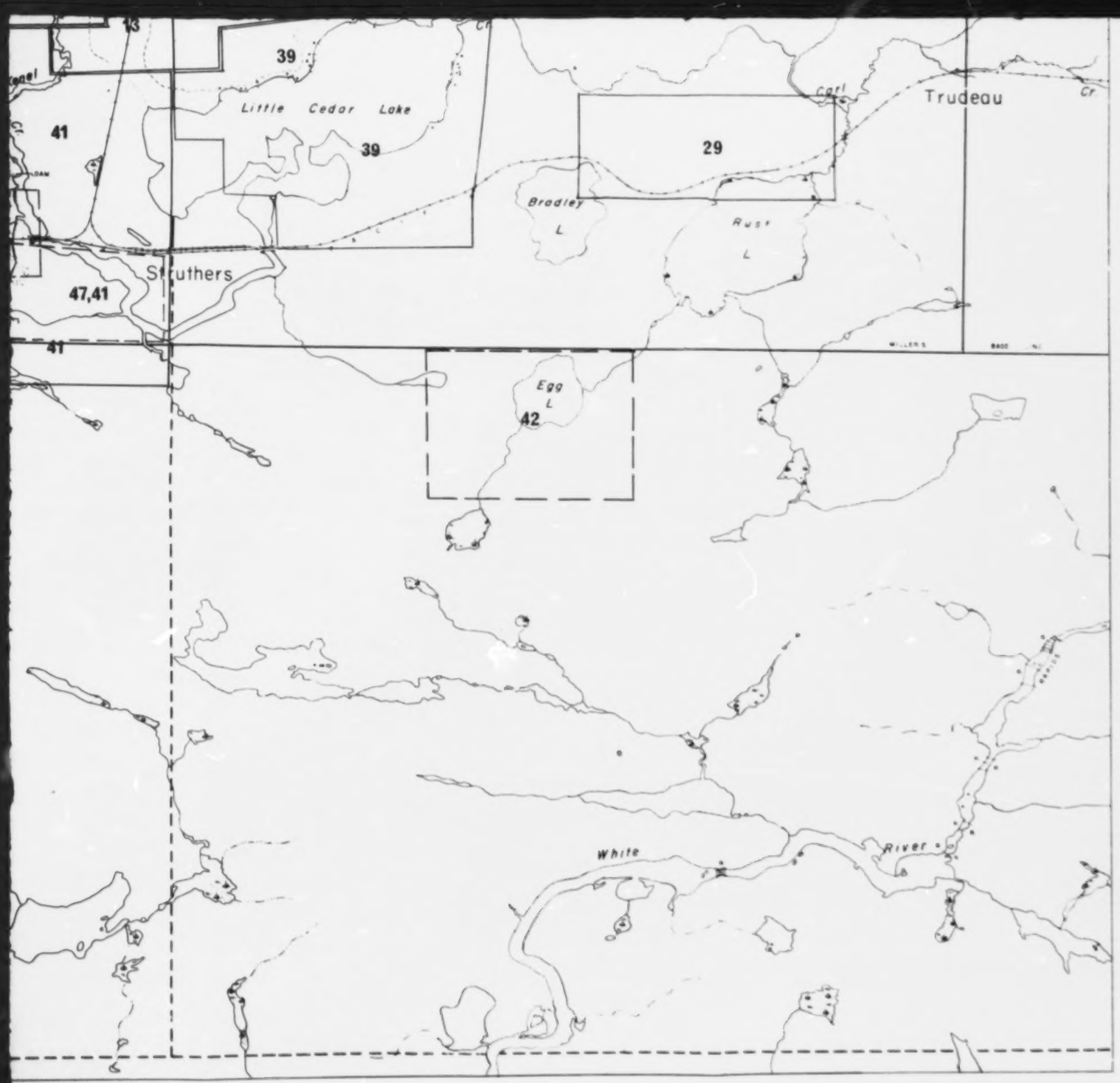
DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

35,40
28,36
41
13
39
Kenel
Little Cedar Lake
Rule L.
26
MOOSE L.
26,2
41
39
26,40
2,3,14,26,44
40
5
6,5
Cigar L.
Hemlo
5
22
41
26,2
7,41
Struthers
47,41
41
Cache L.
38
46
38
38
Molson L.
Handle L.
Dalton
Ell L.
Spangle L.
48° 37' 30"
86° 00'




## EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined.
See listing in text pages.

Small area of exploration.

86° 00'

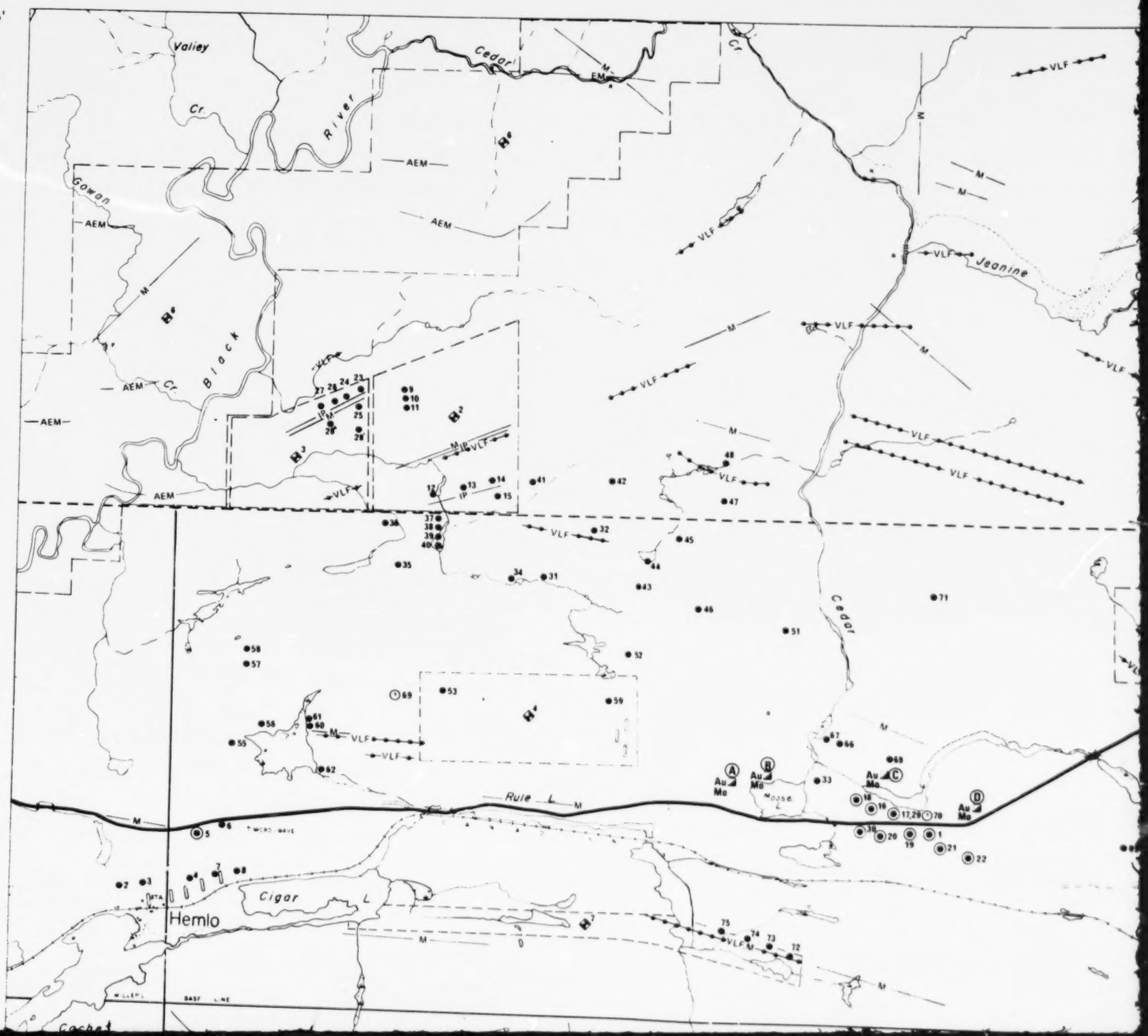
48° 45'

## GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

## GEOPHYSICAL ANOMALIES

- AM — Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ARA — Airborne Radiometric Anomaly
- M — Ground Magnetometer Anomaly
- VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- RA — Ground Radiometric Anomaly
- IP — Induced Polarization Anomaly
- SP — Self Potential Anomaly
- AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- R — Resistivity Anomaly



85° 45

48° 45'

Ontario

ONTA

EXPL

GEOLOGICAL

# MOLSON

DISTRI

Mile 0 5

Kilometre 0 5

GEOLOGIC

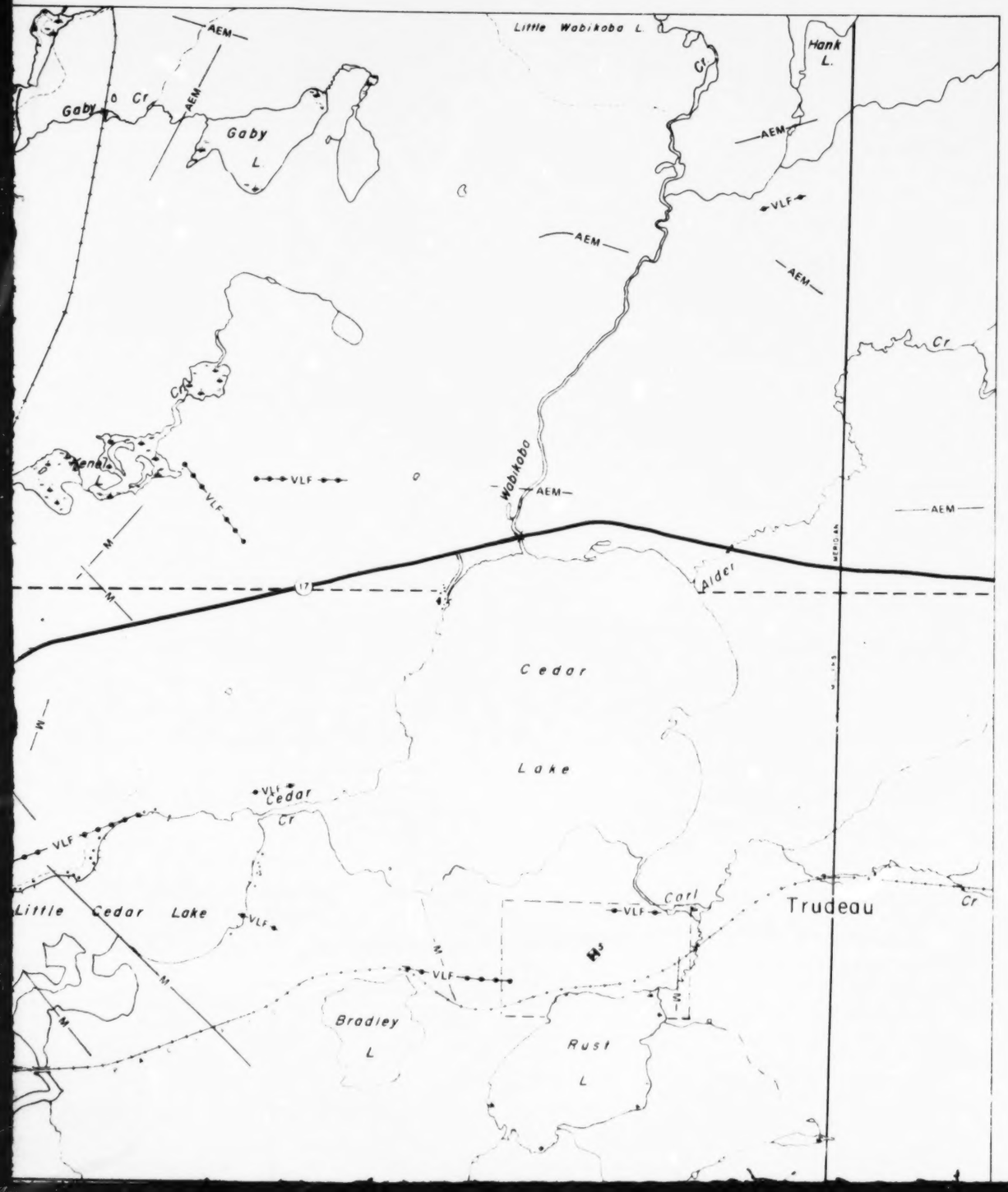
TYPES OF DATA SHOWN ON T

MINER

- Mineral occurre
- Mineral occurre reference letter
- Mineral occurr reference letter
- Mineralized Fl

85° 45

48° 45'




Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

**EXPLORATION DATA MAP**

**GEOLOGICAL DATA INVENTORY FOLIO** 208

( Map **2** of **2** )

# MOLSON LAKE AREA

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

## GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

### MINERAL OCCURRENCES

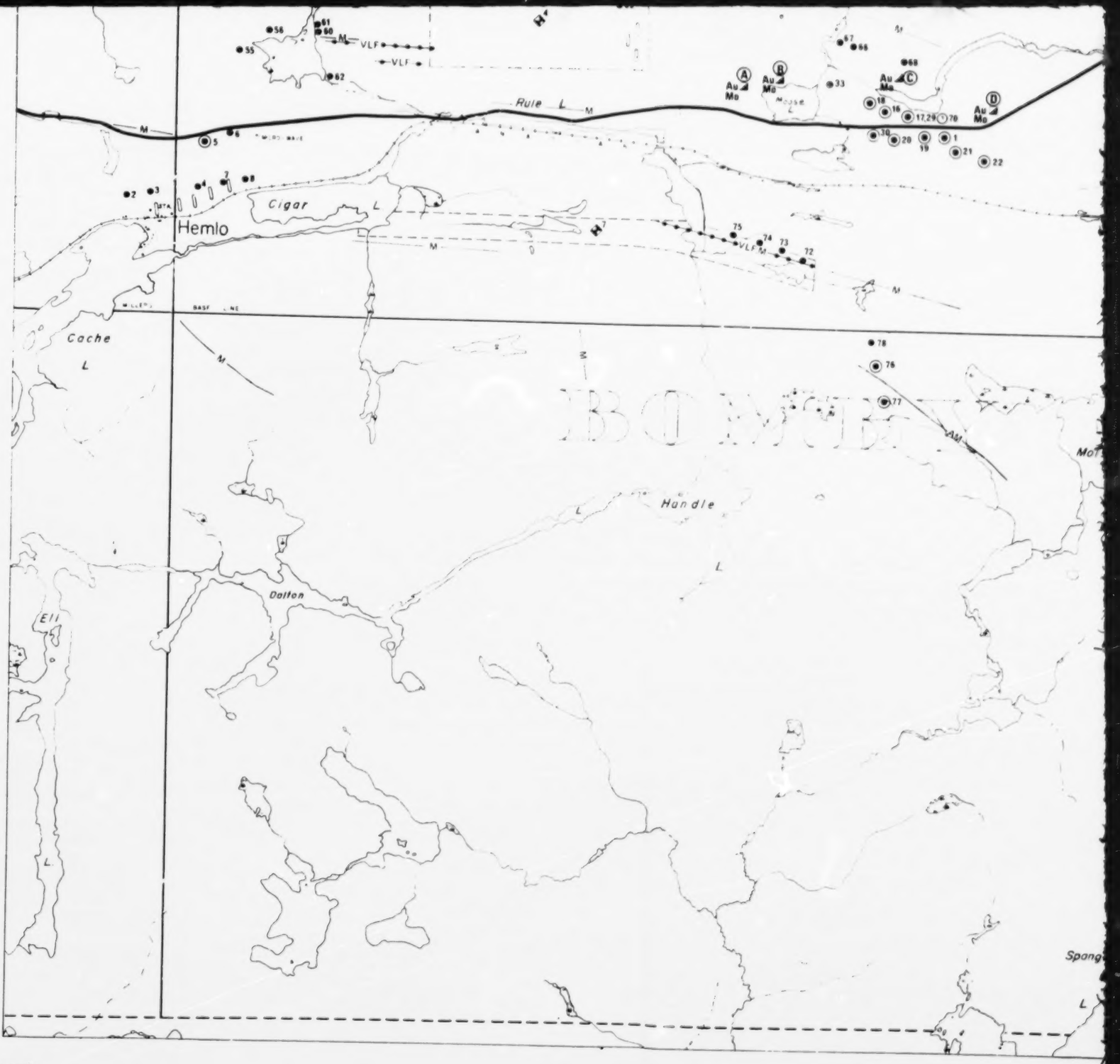
- ☐ cp A. — Mineral occurrence at surface, with reference letter
- ☒ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized Float with reference letter

- ☐ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☒ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequenc, magnetometer anomaly (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly
- ☒ AEM — Airborne Electromagnetic Anomaly

## MISCELLANEOUS DATA

- ☒ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐
- ☐ Rock quarry
- ☒ Sand and/or gravel pit
- ☐

**NOTE**: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



Rule L

Kenel

Little Cedar Lake

Carl

Trudeau

Cr

Bradley L

Rust L

Struthers

BOMBAY

Molson L

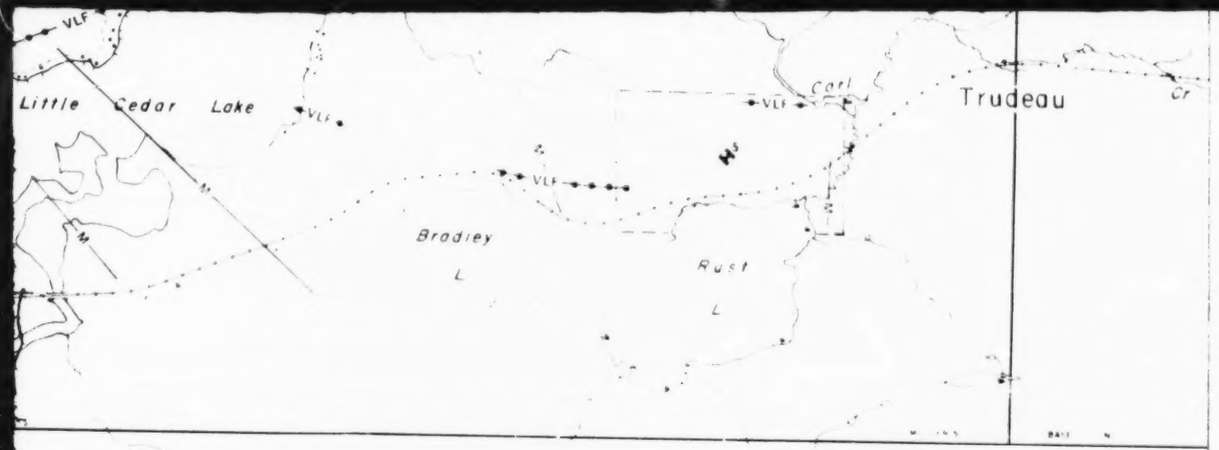
Handle L

Spangle L

White River

48°

85° 45'



## MINERAL OCCURRENCES

- ☐ cp A. — Mineral occurrence at surface, with reference letter
- ☒ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized Float with reference letter
- ☐ — 

## DRILL HOLES

- ☒ ●² — Location of single drill hole, with reference number
- ☒ ◉² — Location of closely spaced group of drill holes, with reference number
- ☒ ?² — Drill hole, exact location uncertain, with reference number.
- ☐ — Property with underground drill holes in this general area, with reference number
- ☐ ○² — Property with drill holes which have not been plotted on map with reference number
- ☐ ⊕² — Reverse Circulation Drill Hole; Churn drilling, with reference number
- ☐ — 

48° 37' 30"

85° 45'